



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,854	12/20/2001	Seung Kuk Ahn	049128-5030	1440

7590 06/15/2004
MORGAN, LEWIS & BOCKIUS LLP
1800 M Street, N.W.
Washington, DC 20036

EXAMINER

LAO, LUN YI

ART UNIT	PAPER NUMBER
----------	--------------

2673

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/022,854

Applicant(s)

AHN, SEUNG KUK

Examiner

Lao Y Lun

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 and 7 is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiki(5,406,308).

As to claims 1 and 3, Shiki(5,406,308) teaches an LCD display comprising the steps of: receiving a data signal(HSYNC) for indicating a time interval when a video data exists; detecting an enable initiation time of the data enable signal(HSYNC); generating a reset signal(HSET) at the enable initiation time of data signal(HSYNC) and resetting a source shift clock signal for sampling video data(see figures 1-2, 11-14; column 3, lines 30-40 and column 5, lines 7-43).

It would have been obvious to a data signal(HSYNC) as a data enable signal since a data signal(HSYNC) causes the time generating circuit(10) to generate a reset signal(HSET)(see figures 11-12 and column 5, lines 17-21).

3. Claims 2 and 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiki(5,406,308) and Sekido et al(5,999,158).

Art Unit: 2673

Shiki fails to disclose a source driving circuit for latching video signal after sampling.

Sikido et al teach a source driving circuit having a latching circuit(4) for latching sampling video signal(see figure 4; column 3, lines 61-68 and column 4, lines 1-4). It would have been obvious to have modified Sekido et al with the teaching of Shiki, so as to transfer sampling data signal to an LCD display panel(see column 4, lines 2-4).

Allowable Subject Matter

4. Claims 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments filed on May 11, 2004 have been fully considered but they are not persuasive.

Applicant argues that Shiki is completely silent with respect to a method of the steps of "generating a reset signal at said enable initiation time of data signal or "a reset signal generator for detecting an enable initiation time of a data enable signal for indicating a time interval when a video data exists to generate a rest signal" and resetting a source shift clock signal for sampling the video data in

Art Unit: 2673

response to the reset signal" on pages 2 and 3. The examiner disagrees with that since Shiki teaches the steps of generating a reset signal(HSET) at said enable initiation time of data signal or a reset signal generator for detecting an enable initiation time of a data enable signal for indicating a time interval when a video data exists to generate a rest signal (see figures 11, 12 and column 5, lines 4-34) and resetting a source shift clock signal(HS) for sampling the video data in response to the reset signal(HSET)(see figures 1-3; column 2, lines 59-68 and column 3, lines 1-51).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mametsuka(6,417,847) teaches a shift clock signal generator(2) comprising D Flip-flop, an inverter(10) and an AND gate(8).

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

Art Unit: 2673

calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lun-yi, Lao whose telephone number is (703) 305-4873.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached at (703) 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

June 10, 2004


Lun-yi Lao

Primary Examiner